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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/836,470A

DATE: 12/04/2001
TIME: 19:49:34

Input Set : **N:\Crf3\RULE60\09836470A.RAW**
Output Set: **N:\CRF3\12042001\I836470A.raw**

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 1 <110> APPLICANT: KUWABARA, Yoko
 2        HASHIGUCHI, Kenichi
 3        NAKAMATSU, Tsuyoshi
 4        KURAHASHI, Osamu
 5        MORI, Yukiko
 6        ITO, Hisao
 7 <120> TITLE OF INVENTION: CARBAMOYL-PHOSPHATE SYNTHETASE GENE OF CORYNEFORM
 8        BACTERIA AND METHOD FOR PRODUCING L-ARGININE
 9 <130> FILE REFERENCE: OP945CIP
10 <140> CURRENT APPLICATION NUMBER: 09/836,470A
11 <141> CURRENT FILING DATE: 2001-04-18
12 <150> PRIOR APPLICATION NUMBER: US/09/629,616
13 <151> PRIOR FILING DATE: 2000-07-31
14 <160> NUMBER OF SEQ ID NOS: 7
15 <170> SOFTWARE: PatentIn Ver. 2.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 4837
19 <212> TYPE: DNA
20 <213> ORGANISM: Brevibacterium lactofermentum
21 <220> FEATURE:
22 <221> NAME/KEY: CDS
23 <222> LOCATION: (283)..(1461)
24 <221> NAME/KEY: CDS
25 <222> LOCATION: (1470)..(4808)
26 <400> SEQUENCE: 1
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29        acttgtgcag acggagttgc gcaagacgct taacgggtgg gtgcatagta tgcacgcgcc 180
30        gcattgcata taatgcaatg aattgaataa actacattca gggttatcaa ccagccaatt 240
31        tcttttaaaa agacagacac acgaaaggcg acaacagtca cc gtg agt aaa gac     294
32                                                      Val Ser Lys Asp
33                                                       1
34        acc acc acc tac cag gga gtc acc gag atc gga tcc gtt ccg gca tac   342
35        Thr Thr Thr Tyr Gln Gly Val Thr Glu Ile Gly Ser Val Pro Ala Tyr
36         5                  10                  15                  20
37        ctg gtt ctt gca gac gga cgt acc ttc acc gga ttt ggc ttt gga gct   390
38        Leu Val Leu Ala Asp Gly Arg Thr Phe Thr Gly Phe Gly Phe Gly Ala
39                         25                  30                  35
40        atc ggc acc acc ctt ggt gag gca gtg ttc acc acc gcc atg acc ggt   438
41        Ile Gly Thr Thr Leu Gly Glu Ala Val Phe Thr Thr Ala Met Thr Gly
42                 40                  45                  50
43        tac caa gaa acc atg acc gat cct tcc tat cac cgc cag att gtt gtg   486
44        Tyr Gln Glu Thr Met Thr Asp Pro Ser Tyr His Arg Gln Ile Val Val
45             55                  60                  65
46        gct acc gca cca cag atc ggt aac acc ggc tgg aac gat gag gac aac   534
47        Ala Thr Ala Pro Gln Ile Gly Asn Thr Gly Trp Asn Asp Glu Asp Asn
48             70                  75                  80
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49    gag tcc cgc gac ggc aag att tgg gtt gca ggc ctt gtt atc cgc gac    582
50    Glu Ser Arg Asp Gly Lys Ile Trp Val Ala Gly Leu Val Ile Arg Asp
51     85                  90                  95                 100
52    ctc gca gca cgt gtg tcc aac tgg cgc gcc acc acc tcc ttg cag cag    630
53    Leu Ala Ala Arg Val Ser Asn Trp Arg Ala Thr Thr Ser Leu Gln Gln
54                       105                 110                 115
55    gaa atg gca gac caa ggc atc gtc ggc atc ggc gga atc gac acc cgc    678
56    Glu Met Ala Asp Gln Gly Ile Val Gly Ile Gly Gly Ile Asp Thr Arg
57                  120                 125                 130
58    gca ctg gtt cgc cac ctg cgc aac gaa ggt tcc atc gca gcg ggc atc    726
59    Ala Leu Val Arg His Leu Arg Asn Glu Gly Ser Ile Ala Ala Gly Ile
60            135                 140                 145
61    ttc tcc ggc gct gac gca cag cgc cca gtt gaa gaa ctc gta gag atc    774
62    Phe Ser Gly Ala Asp Ala Gln Arg Pro Val Glu Glu Leu Val Glu Ile
63            150                 155                 160
64    gtc aag aat cag cca gca atg acc ggc gca aac ctc tcc gtt gag gtc    822
65    Val Lys Asn Gln Pro Ala Met Thr Gly Ala Asn Leu Ser Val Glu Val
66    165                 170                 175                 180
67    tct gct gat gaa acc tac gtc atc gaa gct gag ggc gaa gag cgc cac    870
68    Ser Ala Asp Glu Thr Tyr Val Ile Glu Ala Glu Gly Glu Glu Arg His
69                  185                 190                 195
70    acc gtc gtg gcc tac gac ctg ggc att aag caa aac acc cca cgt cgt    918
71    Thr Val Val Ala Tyr Asp Leu Gly Ile Lys Gln Asn Thr Pro Arg Arg
72                  200                 205                 210
73    ttc tct gca cgc ggt gtt cgc acc gtc atc gtg cct gct gaa acc cca    966
74    Phe Ser Ala Arg Gly Val Arg Thr Val Ile Val Pro Ala Glu Thr Pro
75            215                 220                 225
76    ttg gag gac atc aag cag tac aac cca tca ggc gtg ttt atc tcc aat    1014
77    Leu Glu Asp Ile Lys Gln Tyr Asn Pro Ser Gly Val Phe Ile Ser Asn
78            230                 235                 240
79    ggc cct ggc gac cct gca gca gca gac gtc atg gtt gat atc gtc cgc    1062
80    Gly Pro Gly Asp Pro Ala Ala Ala Asp Val Met Val Asp Ile Val Arg
81    245                 250                 255                 260
82    gaa gtt ctg gaa gcc gac att cca ttc ttt ggc atc tgc ttc ggc aac    1110
83    Glu Val Leu Glu Ala Asp Ile Pro Phe Phe Gly Ile Cys Phe Gly Asn
84                  265                 270                 275
85    cag atc ctc ggc cgc gca ttc ggc atg gag acc tac aag ctg aag ttc    1158
86    Gln Ile Leu Gly Arg Ala Phe Gly Met Glu Thr Tyr Lys Leu Lys Phe
87            280                 285                 290
88    ggc cac cgc ggc atc aac gtt cca gtg aag aac cac atc acc ggc aag    1206
89    Gly His Arg Gly Ile Asn Val Pro Val Lys Asn His Ile Thr Gly Lys
90            295                 300                 305
91    atc gac atc acc gcc cag aac cac ggc ttc gca ctc aag ggt gaa gca    1254
92    Ile Asp Ile Thr Ala Gln Asn His Gly Phe Ala Leu Lys Gly Glu Ala
93            310                 315                 320
94    ggc cag gaa ttc gag aca gat ttc ggc act gcg att gtc acc cac acc    1302
95    Gly Gln Glu Phe Glu Thr Asp Phe Gly Thr Ala Ile Val Thr His Thr
96    325                 330                 335                 340
97    tgc ctt aac gac ggc gtc gtt gaa ggt gtt gcg ctg aag tcc gga cgc    1350
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 98      Cys Leu Asn Asp Gly Val Val Glu Gly Val Ala Leu Lys Ser Gly Arg
 99                       345                 350                 355
100      gca tac tcc gtt cag tac cac cca gag gcc gct gcc ggc cca aat gat   1398
101      Ala Tyr Ser Val Gln Tyr His Pro Glu Ala Ala Ala Gly Pro Asn Asp
102                       360                 365                 370
103      gca agc ccc ctg ttt gac cag ttt gtt gag ctg atg gat gca gac gct   1446
104      Ala Ser Pro Leu Phe Asp Gln Phe Val Glu Leu Met Asp Ala Asp Ala
105                       375                 380                 385
106      cag aag aaa ggc gca taaataac atg cca aag cgt tca gat att aac cac   1496
107      Gln Lys Lys Gly Ala         Met Pro Lys Arg Ser Asp Ile Asn His
W--> 108                 390                  1                   5
109      gtc ctc gtc atc ggt tcc ggc ccc atc gtc att ggc cag gca tgt gaa   1544
110      Val Leu Val Ile Gly Ser Gly Pro Ile Val Ile Gly Gln Ala Cys Glu
W--> 111          10                  15                  20                  25
112      ttc gac tac tcc ggc acc cag gct tgc cgc gtg ctg aag gaa gag gga   1592
113      Phe Asp Tyr Ser Gly Thr Gln Ala Cys Arg Val Leu Lys Glu Glu Gly
W--> 114                  30                  35                  40
115      ctg cgc gtc acc ctc atc aac tcc aac cca gca acg atc atg acc gac   1640
116      Leu Arg Val Thr Leu Ile Asn Ser Asn Pro Ala Thr Ile Met Thr Asp
W--> 117                  45                  50                  55
118      cca gaa atg gct gac cac acc tac gtg gag cca atc gag ccg gaa tac   1688
119      Pro Glu Met Ala Asp His Thr Tyr Val Glu Pro Ile Glu Pro Glu Tyr
W--> 120                  60                  65                  70
121      atc gac aag att ttc gct aag gag atc gag cag ggc cac cca atc gac   1736
122      Ile Asp Lys Ile Phe Ala Lys Glu Ile Glu Gln Gly His Pro Ile Asp
W--> 123          75                  80                  85
124      gcc gtc ctg gca acc ctt ggt ggc cag act gca ctt aac gca gct atc   1784
125      Ala Val Leu Ala Thr Leu Gly Gly Gln Thr Ala Leu Asn Ala Ala Ile
W--> 126      90                  95                  100                 105
127      cag ctg gat cgc ctc ggc atc ctg gaa aag tac ggc gtt gaa ctc atc   1832
128      Gln Leu Asp Arg Leu Gly Ile Leu Glu Lys Tyr Gly Val Glu Leu Ile
W--> 129                  110                 115                 120
130      ggt gca gac atc gat gcc att gag cgc ggc gaa gat cgc cag aag ttc   1880
131      Gly Ala Asp Ile Asp Ala Ile Glu Arg Gly Glu Asp Arg Gln Lys Phe
W--> 132              125                 130                 135
133      aag gat att gtc acc acc atc ggt ggc gaa tcc gcg cgt tcc cgc gtc   1928
134      Lys Asp Ile Val Thr Thr Ile Gly Gly Glu Ser Ala Arg Ser Arg Val
W--> 135              140                 145                 150
136      tgc cac aac atg gac gaa gtc cat gag act gtc gca gaa ctt ggc ctt   1976
137      Cys His Asn Met Asp Glu Val His Glu Thr Val Ala Glu Leu Gly Leu
W--> 138              155                 160                 165
139      cca gta gtc gtg cgt cca tcc ttc act atg ggt ggc ctg ggc tcc ggt   2024
140      Pro Val Val Val Arg Pro Ser Phe Thr Met Gly Gly Leu Gly Ser Gly
W--> 141      170                 175                 180                 185
142      ctt gca tac aac acc gaa gac ctt gag cgc atc gca ggt ggc gga ctt   2072
143      Leu Ala Tyr Asn Thr Glu Asp Leu Glu Arg Ile Ala Gly Gly Gly Leu
W--> 144              190                 195                 200
145      gct gca tct cct gaa gca aac gtc ttg atc gaa gaa tcc atc ctt ggt   2120
146      Ala Ala Ser Pro Glu Ala Asn Val Leu Ile Glu Glu Ser Ile Leu Gly
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W--> 147                   205                      210                      215
     148     tgg aag gaa ttc gag ctc gag ctc atg cgc gat acc gca gac aac gtt     2168
     149     Trp Lys Glu Phe Glu Leu Glu Leu Met Arg Asp Thr Ala Asp Asn Val
W--> 150                   220                      225                      230
     151     gtg gtt atc tgc tcc att gaa aac gtc gac gca ctg ggc gtg cac acc     2216
     152     Val Val Ile Cys Ser Ile Glu Asn Val Asp Ala Leu Gly Val His Thr
W--> 153                   235                      240                      245
     154     ggc gac tct gtc acc gtg gca cct gcc ctg acc ctg act gac cgt gaa     2264
     155     Gly Asp Ser Val Thr Val Ala Pro Ala Leu Thr Leu Thr Asp Arg Glu
W--> 156     250                      255                      260           265
     157     ttc cag aag atg cgc gat cag ggt atc gcc atc atc cgc gag gtc ggc     2312
     158     Phe Gln Lys Met Arg Asp Gln Gly Ile Ala Ile Ile Arg Glu Val Gly
W--> 159                   270                      275                      280
     160     gtg gac acc ggt gga tgt aac atc cag ttc gct atc aac cca gtt gat     2360
     161     Val Asp Thr Gly Gly Cys Asn Ile Gln Phe Ala Ile Asn Pro Val Asp
W--> 162                   285                      290                      295
     163     ggc cgc atc atc acc att gag atg aac cca cgt gtg tct cgt tcc tcc     2408
     164     Gly Arg Ile Ile Thr Ile Glu Met Asn Pro Arg Val Ser Arg Ser Ser
W--> 165                   300                      305                      310
     166     gcg ctg gca tcc aag gca acg ggc ttc cca att gcc aag atg gct gcc     2456
     167     Ala Leu Ala Ser Lys Ala Thr Gly Phe Pro Ile Ala Lys Met Ala Ala
W--> 168                   315                      320                      325
     169     aag ctg gct atc gga tac acc ctg gat gag atc acc aac gac atc act     2504
     170     Lys Leu Ala Ile Gly Tyr Thr Leu Asp Glu Ile Thr Asn Asp Ile Thr
W--> 171     330                      335                      340           345
     172     ggt gaa acc cca gct gcg ttt gag ccc acc atc gac tac gtc gtg gtc     2552
     173     Gly Glu Thr Pro Ala Ala Phe Glu Pro Thr Ile Asp Tyr Val Val Val
W--> 174                   350                      355                      360
     175     aag gcc cca cgc ttt gct ttc gag aag ttt gtc ggc gct gat gac act     2600
     176     Lys Ala Pro Arg Phe Ala Phe Glu Lys Phe Val Gly Ala Asp Asp Thr
W--> 177                   365                      370                      375
     178     ttg acc acc acc atg aag tcc gtc ggt gag gtc atg tcc ctg ggc cgt     2648
     179     Leu Thr Thr Thr Met Lys Ser Val Gly Glu Val Met Ser Leu Gly Arg
W--> 180                   380                      385                      390
     181     aac tac att gca gca ctg aac aag gca ctg cgt tcc ctg gaa acc aag     2696
     182     Asn Tyr Ile Ala Ala Leu Asn Lys Ala Leu Arg Ser Leu Glu Thr Lys
W--> 183                   395                      400                      405
     184     cag cag ggt ttc tgg acc aag cct gat gag ttc ttc gca ggg gag cgc     2744
     185     Gln Gln Gly Phe Trp Thr Lys Pro Asp Glu Phe Phe Ala Gly Glu Arg
W--> 186     410                      415                      420           425
     187     gct acc gat aag gca gct gtt ctg gaa gat ctc aag cgc cca acc gaa     2792
     188     Ala Thr Asp Lys Ala Ala Val Leu Glu Asp Leu Lys Arg Pro Thr Glu
W--> 189                   430                      435                      440
     190     ggc cgc ctc tac gac gtt gag ctg gca atg cgc ctt ggc gca agc gtg     2840
     191     Gly Arg Leu Tyr Asp Val Glu Leu Ala Met Arg Leu Gly Ala Ser Val
W--> 192                   445                      450                      455
     193     gaa gaa ctc tac gaa gca tct tct att gat cct tgg ttc ctc gcc gag     2888
     194     Glu Glu Leu Tyr Glu Ala Ser Ser Ile Asp Pro Trp Phe Leu Ala Glu
W--> 195                   460                      465                      470
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       196        ctt gaa gct ctc gtg cag ttc cgc cag aag ctc gtt gac gca cca ttc   2936
       197        Leu Glu Ala Leu Val Gln Phe Arg Gln Lys Leu Val Asp Ala Pro Phe
W--> 198              475                 480                 485
       199        ctc aac gaa gat ctc ctg cgc gaa gca aag ttc atg ggt ctg tcc gac   2984
       200        Leu Asn Glu Asp Leu Leu Arg Glu Ala Lys Phe Met Gly Leu Ser Asp
W--> 201        490                 495                 500                 505
       202        ctg cag atc gca gcc ctt cgc cca gag ttc gct ggc gaa gac ggc gta   3032
       203        Leu Gln Ile Ala Ala Leu Arg Pro Glu Phe Ala Gly Glu Asp Gly Val
W--> 204              510                 515                 520
       205        cgc acc ttg cgt ctg tcc cta ggc atc cgc cca gta ttc aag act gtg   3080
       206        Arg Thr Leu Arg Leu Ser Leu Gly Ile Arg Pro Val Phe Lys Thr Val
W--> 207              525                 530                 535
       208        gat acc tgt gca gca gag ttt gaa gct aag act ccg tac cac tac tcc   3128
       209        Asp Thr Cys Ala Ala Glu Phe Glu Ala Lys Thr Pro Tyr His Tyr Ser
W--> 210              540                 545                 550
       211        gca tac gag ctg gat cca gca gct gag tct gag gtc gca cca cag act   3176
       212        Ala Tyr Glu Leu Asp Pro Ala Ala Glu Ser Glu Val Ala Pro Gln Thr
W--> 213              555                 560                 565
       214        gag cgt gaa aag gtc ctg atc ttg ggc tcc ggt cca aac cgc atc ggc   3224
       215        Glu Arg Glu Lys Val Leu Ile Leu Gly Ser Gly Pro Asn Arg Ile Gly
W--> 216        570                 575                 580                 585
       217        cag ggc atc gag ttc gac tat tcc tgt gtt cac gca gct ctt gag ctc   3272
       218        Gln Gly Ile Glu Phe Asp Tyr Ser Cys Val His Ala Ala Leu Glu Leu
W--> 219              590                 595                 600
       220        tcc cgc gtc ggc tac gaa act gtc atg gtc aac tgc aac cca gag acc   3320
       221        Ser Arg Val Gly Tyr Glu Thr Val Met Val Asn Cys Asn Pro Glu Thr
W--> 222              605                 610                 615
       223        gtg tcc acc gac tac gac acc gct gac cgc ctg tac ttc gag cca ctg   3368
       224        Val Ser Thr Asp Tyr Asp Thr Ala Asp Arg Leu Tyr Phe Glu Pro Leu
W--> 225              620                 625     .           630
       226        acc ttc gaa gac gtc atg gag gtc tac cac gct gag gcg cag tcc ggc   3416
       227        Thr Phe Glu Asp Val Met Glu Val Tyr His Ala Glu Ala Gln Ser Gly
W--> 228              635                 640                 645
       229        acc gtc gca ggt gtt atc gtc cag ctt ggt ggc cag act cct ctg ggc   3464
       230        Thr Val Ala Gly Val Ile Val Gln Leu Gly Gly Gln Thr Pro Leu Gly
W--> 231        650                 655                 660                 665
       232        ttg gca gat cgt ttg aag aag gct ggc gtc cct gtc att ggt acc tcc   3512
       233        Leu Ala Asp Arg Leu Lys Lys Ala Gly Val Pro Val Ile Gly Thr Ser
W--> 234              670                 675                 680
       235        cca gag gca atc gac atg gct gag gac cgt ggc gag ttc ggt gca ctg   3560
       236        Pro Glu Ala Ile Asp Met Ala Glu Asp Arg Gly Glu Phe Gly Ala Leu
W--> 237              685                 690                 695
       238        ctg aac cgc gag cag ctt cct gct cca gca ttc ggc acc gca acc tct   3608
       239        Leu Asn Arg Glu Gln Leu Pro Ala Pro Ala Phe Gly Thr Ala Thr Ser
W--> 240              700                 705                 710
       241        ttc gaa gag gct cgc aca gta gcc gat gag atc agc tac cca gtg ctg   3656
       242        Phe Glu Glu Ala Arg Thr Val Ala Asp Glu Ile Ser Tyr Pro Val Leu
W--> 243              715                 720                 725
       244        gtt cgc cct tcc tac gtc ttg ggt ggc cgt ggc atg gag att gtc tac   3704
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L:114 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:117 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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L:123 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:126 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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L:132 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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L:153 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:156 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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L:162 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
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